

## BRAKE POSITIONING SYSTEM

### Cross-Reference to Related Applications

This application claims the benefit of and priority from the following U.S.

5 Provisional Patent Applications: Serial No. 60/225,056, filed August 14, 2000, Serial No. 60/225,057, filed August 14, 2000, Serial No. 60/225,058, filed August 14, 2000, Serial No. 60/225,059, filed August 14, 2000, Serial No. 60/225,089, filed August 14, 2000, Serial No. 60/225,094, filed August 14, 2000, Serial No. 60/225,169, filed August 14, 2000, Serial No. 60/225,170, filed August 14, 2000, Serial No. 60/225,200, filed August 14, 2000, Serial No. 60/225,201, filed August 14, 2000, Serial No. 60/225,206, filed August 14, 2000, Serial No. 60/225,210, filed August 14, 2000, Serial No. 60/225,211, filed August 14, 2000, and Serial No. 60/225,212, filed August 14, 2000.

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### Field

The present invention relates to safety braking systems and more particularly to a  
15 brake positioning system for use in a fast acting safety brake system.

### Background

Various active safety systems have been developed to prevent injury to a user if they approach or come into contact with a dangerous portion of a machine. Such systems typically include two components: a detection portion and a braking portion. U.S. Patent 20 Nos. 3,785,230 and 4,026,177 to Lokey describe one such system. The system of Lokey uses a detection system that detects dangerous proximity of a part of a user's body. The system relies on a radio-frequency proximity detection. When the detection system